



Platte Chemical Co.

419 18th Street (80631-5852)

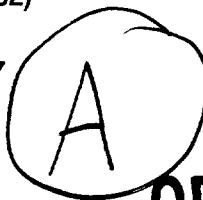
P.O. Box 667

Greeley, CO 80632-0667

Ph. 303-356-4400

Fax 303-356-4418

P%



CERTIFIED MAIL

ORIGINAL

8ENQ-0495-13417

April 6, 1995

Document Processing Center
US EPA
OPPT (7407)
401 M St., SW
Washington, DC 20460



8ENQ-95-13417
INIT 04/10/95

RECEIVED
55 APR 10 PM 3:18

Attn: TSCA - Section 8 (e)

Ref: Diallyl Disulfide (DADS)

2179-57-9

Contains No CBI

Dear Sir/Madam:

Platte Chemical Co. (Platte) reports that the developmental compound, DADS, has been found to cause tremors, wobbly gait, circling, head wobble, and apparent paralysis in dermally treated rabbits, as well as wobbly gait and piloerection in orally treated rats. All 20 treated rats died at a 5000 mg/kg dose. Platte believes these acute effects are the result of hemolytic anemia as induced by DADS and that the observed neurotoxic effects are secondary and are a direct result of oxygen deprivation due to the hemolytic anemia. DADS is a naturally occurring component of Allium crops such as garlic and onions. There are published reports of Allium crops inducing hemolytic anemia in livestock as well as rats. For at least ten years prior to Platte becoming involved with DADS, the material has been experimentally tested by numerous research personnel throughout the world and there have been no reported adverse effects, to our knowledge, on human health or the environment.

If you have any questions or need additional information, please contact me at your convenience at (970) 356-4400.

Respectfully,

Bruce D. Riggle
Special Projects Registration Manager



88950000201

RECEIVED
5/2/95

Triage of 8(e) Submissions

Date sent to triage: 2/5/96

NON-CAP

CAP

Submission number: 13417A

TSCA Inventory:

Y

N

D

Study type (circle appropriate):

Group 1 - Dick Clements (1 copy total)

ECO

AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX

SBTOX

SEN

w/NEUR

Group 3 - Elizabeth Margosches (1 copy each)

STOX

CTOX

EPI

RTOX

GTOX

STOX/ONCO

CTOX/ONCO

IMMUNO

CYTO

NEUR

Other (FATE, EXPO, MET, etc.): _____

Notes:

THIS IS THE ORIGINAL 8(e) SUBMISSION; PLEASE REFILE AFTER TRIAGE DATABASE ENTRY

For Contractor Use Only

entire document: 0 1 2 pages 1 pages 1

Notes:

Contractor reviewer : JEA ~~8/2~~ Date: 5/22/95

#13417A

L

Acute dermal toxicity is of low concern based on no mortality (0/20) in rats exposed to 5000 mg/kg. Clinical signs included tremors, wobbly gait, circling, head wobble, and apparent paralysis.

L

Acute oral toxicity is of low concern based on no mortality (0/20) in rats exposed to 5000 mg/kg. Clinical signs included wobbly gait and piloerection.